CLAIMS

What is claimed is:

- 1 1. An integrated tracing and logging system employed within a network comprising:
- 2 a tracing module associated with specified program code regions of an application,
- 3 the tracing module to receive and process tracing method calls generated by the application
- 4 when the specified program code regions are executed;
- 5 a logging module associated with specified categories related to the network, the
- 6 logging module to receive and process logging method calls from network components
- 7 associated with the categories;
- 8 an output destination to receive a message from at least one of the tracing module and
- 9 the logging module; and
- a formatter to determine a message format for the received message.
- 1 2. The system of claim 1, wherein the formatter is one of a list formatter, a human-
- 2 readable formatter, and a markup language formatter.
- 1 3. The system of claim 1, wherein one or more properties of the formatter are defined in
- 2 a configuration file.
- 1 4. The system of claim 3, wherein the configuration file includes an identifier to identify
- 2 the formatter.
- 1 5. The system of claim 3, wherein the one or more properties are formatted as key-
- 2 value-pair properties, each key-value pair having a key to specify an attribute and a value to
- 3 provide a definition for the specified attribute.

- 1 6. The system of claim 3, wherein the configuration file defines the message format for
- 2 the received message, the message format including one or more fields.
- 1 7. The system of claim 6, wherein the one or more fields of the message format includes
- 2 at least one of
- a timestamp field to indicate a time for the received message;
- a location of origin field to indicate a source of the received message;
- 5 a thread identifier field to indicate a thread associated with the received message;
- a message severity indicator field to indicate a severity level of the received message;
- 7 and
- 8 a message identifier field to identify the received message.
- 1 8. The method of claim 1, wherein the output destination is at least one of
- 2 a trace file; and
- 3 a log file.
- 1 9. The method of claim 1, wherein the output destination is a console.
 - 1 10. A computer-implemented method employed within a network comprising:
 - 2 creating an instance of a tracing controller associated with specified program code
 - 3 regions of an application, the tracing controller instance to receive and process tracing
- 4 method calls generated by the application when the specified program code regions are
- 5 executed;
- 6 creating an instance of a logging controller associated with specified categories
- 7 related to the network, the logging controller to receive and process logging method calls
- 8 from network components associated with the categories;

- specifying an output destination to receive a message from at least one of the tracing
- 10 controller instance and the logging controller instance; and
- selecting a formatter to provide a message format for the received message, wherein
- the message format is defined based, at least in part, on a configuration file.
 - 1 11. The method of claim 10, further comprising:
- 2 configuring the message format for the selected formatter.
- 1 12. The method of claim 11, wherein configuring the message format comprises
- 2 providing an identifier to the configuration file to identify the selected formatter.
- 1 13. The method of claim 12, wherein configuring the message format further comprises
- 2 specifying one or more fields for the message format.
- 1 14. The method of claim 13, wherein specifying one or more fields comprises specifying
- 2 at least one of
- a timestamp field to indicate a time for the received message;
- a location of origin field to indicate a source of the received message;
- 5 a thread identifier field to indicate a thread associated with the received message;
- a message severity indicator field to indicate a severity level of the received message;
- 7 and
- 8 a message identifier field to identify the received message.
- 1 15. The method of claim 10, further comprising:
- 2 providing a filter to the specified output destination to selectively filter the message.
- 1 16. A system comprising:

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- 3 program code regions of an application, the tracing controller instance to receive and process
- 4 tracing method calls generated by the application when the specified program code regions
- 5 are executed;
- a means for creating an instance of a logging controller associated with specified
- 7 categories related to the network, the logging controller to receive and process logging
- 8 method calls from network components associated with the categories;
- a means for specifying an output destination to receive a message from at least one of
- the tracing controller instance and the logging controller instance; and
- a means for selecting a formatter to provide a message format for the received
- message, wherein the message format is defined based, at least in part, on a configuration
- 13 file.
- 1 17. The system of claim 16, further comprising:
- a means for configuring the message format for the selected formatter.
- 1 18. The system of claim 17, wherein the means for configuring the message format
- 2 comprises:
- a means for specifying one or more fields for the message format.
- 1 19. The system of claim 18, wherein the means for specifying one or more fields
- 2 comprises a means for specifying at least one of
- a timestamp field to indicate a time for the received message;
- 4 a location of origin field to indicate a source of the received message;
- 5 a thread identifier field to indicate a thread associated with the received message;
- a message severity indicator field to indicate a severity level of the received message;
- 7 and

- 8 a message identifier field to identify the received message.
- 1 20. An article of manufacture comprising:
- 2 an electronically accessible medium providing instructions that, when executed by an
- 3 apparatus, cause the apparatus to
- 4 create an instance of a tracing controller associated with specified program code
- 5 regions of an application, the tracing controller instance to receive and process tracing
- 6 method calls generated by the application when the specified program code regions are
- 7 executed;
- 8 create an instance of a logging controller associated with specified categories related
- 9 to the network, the logging controller to receive and process logging method calls from
- 10 network components associated with the categories;
- specify an output destination to receive a message from at least one of the tracing
- 12 controller instance and the logging controller instance; and
- select a formatter to provide a message format for the received message, wherein the
- message format is defined based, at least in part, on a configuration file.
- 1 21. The article of manufacture of claim 20, wherein the electronically accessible medium
- 2 provides further instructions that, when executed by the apparatus, cause the apparatus to
- 3 configure the message format for the selected formatter.
- 1 22. The article of manufacture of claim 21, wherein the instructions that, when executed
- 2 by the apparatus, cause the apparatus to configure the message format for the selected
- 3 formatter cause the apparatus to provide one or more fields for the message format.
- 1 23. An apparatus comprising:
- 2 an application; and

- a processor and logic executable thereon to
- 4 create an instance of a tracing controller associated with specified program
- 5 code regions of the application, the tracing controller instance to receive and process tracing
- 6 method calls generated by the application when the specified program code regions are
- 7 executed;
- 8 create an instance of a logging controller associated with specified categories
- 9 related to a network, the logging controller to receive and process logging method calls from
- 10 network components associated with the categories;
- specify an output destination to receive a message from at least one of the
- tracing controller instance and the logging controller instance; and
- select a formatter to provide a message format for the received message,
- wherein the message format is defined based, at least in part, on a configuration file.
 - 1 24. The apparatus of claim 23, wherein the selected formatter is one of a list formatter, a
 - 2 human-readable formatter, and a markup language formatter.
 - 1 25. The apparatus of claim 23, wherein the configuration file includes an identifier to
 - 2 identify the formatter.
 - 1 26. The apparatus of claim 23, wherein the processor and logic executable thereon further
 - 2 comprises:
 - a processor and logic executable thereon to configure the message format for the
 - 4 selected formatter.
 - 1 27. The apparatus of claim 26, wherein the processor and logic executable thereon to
 - 2 configure the message format comprises a processor and logic executable thereon to
 - 3 specify one or more fields for the message format.

- 1 28. The apparatus of claim 27, wherein the processor and logic executable thereon to
- 2 specify one or more fields for the message format comprises a processor and logic executable
- 3 thereon to specify at least one of
- a timestamp field to indicate a time for the received message;
- a location of origin field to indicate a source of the received message;
- a thread identifier field to indicate a thread associated with the received message;
- 7 a message severity indicator field to indicate a severity level of the received message;
- 8 and
- a message identifier field to identify the received message.